

APPENDIX A

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830
 Total Depth: 9 ft
 Date Started: 5/28/2019
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: City of Waltham
 Location: 225-227 Beaver St
 Completed: 5/28/2019
 Ground El.

BORING ID: GP2-3
 Logged By: AMS
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample				PID Hdspace (ppmv)	Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery			
0	S1		0'	40"	0.0	brown loamy soil tan to brown fine SAND, trace coarse sand with gravel; dry brown fine SAND, 8" coarse sand layer, gray gravel with silt lenses; dry	
-1					1		
-2					0.0		
-3					3		
-4					3		
-5					0.0		
-6			5'		5		
-7	S2		5'	36"	5		
-8					0.0		
-9					7		
-10					7		
-11					0.0		
-12					9		
-13							
-14							
-15							
-16							
-17							
-18							
-19							
-20							
Note: 3 additional attempts did not drill past 9 feet							
Groundwater Measurements					Summary		
Date	Time	Depth to Groundwater	Measuring Point	Overburden: Fill; Sand			
				Rock: NA			
				Well Depth: NA			
				Boring: 9 ft			

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830
 Total Depth: 9 ft
 Date Started: 5/28/2019
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: City of Waltham
 Location: 225-227 Beaver St
 Completed: 5/28/2019
 Ground El.
 BORING ID: GP2-2
 Logged By: AMS
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample				PID Hdspace (ppmv)	Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery			
0	S1		0'	40"	0.0	brown loamy soil tan to brown fine SAND, trace coarse sand with gravel; dry See Above	
-1					1		
-2					0.0		
-3					3		
-4					3		
-5					0.0		
-6			5'		5		
-7	S2		5'	36"	5		
-8					0.0		
-9					7		
-10					7		
-11					0.0		
-12					9		
-13							
-14							
-15							
-16							
-17							
-18							
-19							
-20							
Note: 3 additional attempts did not drill past 9 feet							
End of Boring at 8 feet; Refusal at 9 ft							
Groundwater Measurements						Summary	
Date	Time	Depth to Groundwater		Measuring Point	Overburden: Fill; Sand		
					Rock: NA		
					Well Depth: NA		
					Boring: 9 ft		

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830
 Total Depth: 8 ft
 Date Started: 5/28/2019
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: City of Waltham
 Location: 225-227 Beaver St
 Completed: 5/28/2019
 Ground El.
 BORING ID: GP2-1
 Logged By: AMS
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample				PID Hdspace (ppmv)	Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery			
0	S1		0'	40"	0.0	brown loamy soil tan to brown fine SAND, trace coarse sand with gravel; dry See Above brown fine SAND, trace medium sand with gravel and silt lenses; dry End of Boring at 8 feet; Refusal at 8 ft	
-1					1		
-2					0.0		
-3					3		
-4					3		
-5					0.0		
-6			5'		5		
-7	S2		5'	36"	5		
-8					0.0		
-9					7		
-10					7		
-11					0.0		
-12					9		
-13							
-14			10'				
-15							
-16							
-17							
-18							
-19							
-20							
Note: 3 additional attempts did not get past 9 feet							
Groundwater Measurements						Summary	
Date	Time	Depth to Groundwater		Measuring Point		Overburden: Fill; Sand	
						Rock: NA	
						Well Depth: NA	
						Boring: 8 ft	

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830
 Total Depth: 20 ft
 Date Started: 5/28/2019
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: City of Waltham
 Location: 240 Beaver St
 Completed: 5/28/2019
 Ground El.
 BORING ID: GP1-6
 Logged By: AMS
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample				PID Hdspace (ppmv)	Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery			
0	S1		0'	40"	0	black asphalt and graded base	
-1					0.0		
-2					2	tan to gray fine SAND, trace gravel with broken concrete pieces; dry (FILL)	
-3					0.8		
-4					4	tan to gray fine to silty fine SAND, little medium sand; dry	
-5	S2		5'	48"	1.1		
-6					6	black fine to silty fine SAND, trace medium sand, with wood and glass; dry	
-7					0.9		
-8					8		
-9					1.6		
-10	S3		10'	60"	10	black fine to silty fine SAND, trace medium sand, trace coarse sand with gravel pieces; moist to wet	
-11					2.1		
-12					12		
-13					1.3		
-14					14	gray fine to silty fine SAND, trace medium sand, trace coarse sand with silt lenses; wet	
-15	S4		15'		0.7		
-16					16		
-17					0.1		
-18					18		
-19					0.0		
-20			20'		20	End of Boring at 20 feet; No Refusal	
Groundwater Measurements						Summary	
Date	Time	Depth to Groundwater		Measuring Point	Overburden: Fill; Sand		
					Rock: NA		
					Well Depth: NA		
					Boring: 20'		


TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830
 Total Depth: 20 ft
 Date Started: 5/28/2019
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: City of Waltham
 Location: 240 Beaver St
 Completed: 5/28/2019
 Ground El.

BORING ID: GP1-7MW
 Logged By: AMS
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample				PID Hdspace (ppmv)	Sample Description	Well Diagram	
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery				
0	S1		0'	40"	0	tan to brown fine SAND, little coarse sand trace medium sand with wood and gravel; dry (FILL)		
-1					0.1			
-2					2			
-3					0.0	tan to gray fine to silty fine SAND, little medium sand with wood and glass; dry		
-4					4			
-5			5'		0.1			
-6	S2		5'	48"	6			
-7					0.1			
-8					8			
-9					0.3	black fine to silty fine SAND, trace medium sand, with broken glass, asphalt pieces, concrete pebbles; dry		
-10			10'		10			
-11	S3		10'	60"	10			
-12					0.9			
-13					12			
-14					12			
-15					0.6	gray fine to silty fine SAND, trace medium sand, trace coarse sand with gravel pieces; moist to wet		
-16					14			
-17					14			
-18			15'		0.1			
-19	S4		15'		16			
-20					16			
-21					0.0	gray fine to silty fine SAND, trace medium sand, trace coarse sand with silt lenses; wet		
-22					18			
-23					18			
-24					0.0			
-25			20'		20			
-26								
End of Boring at 20 feet; No Refusal								
Groundwater Measurements						Summary		
Date	Time	Depth to Groundwater	Measuring Point	Overburden:	Fill; Sand			
				Rock:	NA			
				Well Depth:	NA			
				Boring:	20'			

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830
 Total Depth: 20 ft
 Date Started: 5/28/2019
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: City of Waltham
 Location: 240 Beaver St
 Completed: 5/28/2019
 Ground El.:
 BORING ID: GP1-6
 Logged By: AMS
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample				PID Hdspace (ppmv)	Sample Description	Well Diagram	
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery				
0	S1		0'	40"	0.0	black asphalt and graded base		
-1					1	tan to gray fine SAND, trace gravel with broken concrete pieces; dry (FILL)		
-2					0.0			
					3			
-3					3	tan to gray fine to silty fine SAND, little medium sand; dry		
					0.0			
-4								
			5'		5			
-5	S2		5'	48"	5	gray fine to silty fine SAND, trace medium sand, with pebbles; dry		
					0.0			
-6					7			
-7					7			
					0.0			
-8					9			
-9					9			
			10'		0.1			
-10	S3		10'	60"	11			gray fine to silty fine SAND, trace medium sand, trace coarse sand with gravel pieces; moist to wet
-11					11			
					0.1			
-12					13			
-13					13			
					0.0			
-14								
			15'		15			
-15	S4		15'		15	gray fine to silty fine SAND, trace medium sand, trace coarse sand with silt lenses; wet		
					0.1			
-16					17			
-17					17			
-18					0.0			
-19						End of Boring at 20 feet; No Refusal		
			20'		20			
-20								
Groundwater Measurements						Summary		
Date	Time	Depth to Groundwater	Measuring Point	Overburden:	Fill; Sand			
				Rock:	NA			
				Well Depth:	NA			
				Boring:	20'			

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830
 Total Depth: 20 ft
 Date Started: 5/28/2019
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: City of Waltham
 Location: 240 Beaver St
 Completed: 5/28/2019
 Ground El.:
 BORING ID: GP1-5MW
 Logged By: AMS
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample					PID Hdspace (ppmv)	Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery				
0	S1		0'	40"	0.0		black asphalt and graded base	
-1					1		tan to gray fine SAND, trace gravel with broken concrete pieces; dry (FILL)	
-2					0.0			
-3					3			
-4					3		tan to gray fine to silty fine SAND, little medium sand; dry	
-5			5'		0.0			
-6					5			
-7	S2		5'	48"	5		gray fine to silty fine SAND, trace medium sand, with pebbles; dry	
-8					0.0			
-9					7			
-10					7			
-11					0.0			
-12					9			
-13					9		Approximate Water Table	
-14			10'		0.1			
-15	S3		10'	60"	11			
-16					11			
-17					0.1		gray fine to silty fine SAND, trace medium sand, trace coarse sand with gravel pieces; moist to wet	
-18					13			
-19					13			
-20					0.0			
-21					15			
-22	S4		15'		15			
-23					0.1		gray fine to silty fine SAND, trace medium sand, trace coarse sand with silt lenses; wet	
-24					17			
-25					17			
-26					0.0			
-27					20			
-28			20'		20			
-29							End of Boring at 20 feet; No Refusal	
-30								
Groundwater Measurements						Summary		
Date	Time	Depth to Groundwater		Measuring Point	Overburden: Fill; Sand			
					Rock: NA			
					Well Depth: NA			
					Boring: 20'			

Groundwater Measurements

Summary

Date	Time	Depth to Groundwater	Measuring Point

Overburden: Fill; Sand
 Rock: NA
 Well Depth: NA
 Boring: 20'

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830
 Total Depth: 20 ft
 Date Started: 5/28/2019
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: City of Waltham
 Location: 240 Beaver St
 Completed: 5/28/2019
 Ground El.
 BORING ID: GP1-4
 Logged By: AMS
 Contractor: Crawford
 Sheet #: 1


Depth (Feet)	Sample				PID Hdspace (ppmv)	Sample Description	Well Diagram	
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery				
0	S1		0'	40"	0.0	black asphalt and graded base tan to gray fine SAND, trace gravel with broken concrete pieces; dry (FILL)		
-1					1			
-2					0.0			
-3					3	tan to gray fine to silty fine SAND, little medium sand; dry		
-4					3			
					0.0			
			5'		5			
-5	S2		5'	48"	5			
-6					0.0			
					7			gray fine to silty fine SAND, trace medium sand, with pebbles; dry
-7					7			
-8					0.0			
					9			
-9					9			
			10'		0.1	gray fine to silty fine SAND, trace medium sand, trace coarse sand with gravel pieces; moist to wet		
-10	S3		10'	60"	11			
-11					11			
					0.1			
-12					13			
-13					13			
					0.0			
-14					15			
			15'		15	gray fine to silty fine SAND, trace medium sand, trace coarse sand with silt lenses; wet		
-15	S4		15'		15			
-16					0.1			
					17			
-17					17			
					0.0			
-18								
-19								
			20'		20	End of Boring at 20 feet; No Refusal		
-20								
Groundwater Measurements						Summary		
Date	Time	Depth to Groundwater		Measuring Point	Overburden: Fill; Sand			
					Rock: NA			
					Well Depth: NA			
					Boring: 20'			

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830
 Total Depth: 20 ft
 Date Started: 5/28/2019
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: City of Waltham
 Location: 240 Beaver St
 Completed: 5/28/2019
 Ground El.
 BORING ID: GP1-3MW
 Logged By: AMS
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample				PID Hdspace (ppmv)	Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery			
0	S1		0'	40"	0.0	black asphalt and graded base	
-1					1	tan to gray fine SAND, trace gravel with broken concrete pieces; dry (FILL)	
-2					0.0		
-3					3		
-4					3	tan to gray fine to silty fine SAND, little medium sand; dry	
-5			5'		0.0		
-6					5		
-7	S2		5'	48"	5		
-8					0.0		
-9					7	gray fine to silty fine SAND, trace medium sand, with pebbles; dry	
-10					7		
-11					0.0		
-12					9		
-13					9		
-14			10'		0.1	gray fine to silty fine SAND, trace medium sand, trace coarse sand with gravel pieces; moist to wet	
-15	S3		10'	60"	0.1		
-16					11		
-17					11		
-18					0.1		
-19					13	gray fine to silty fine SAND, trace medium sand, trace coarse sand with silt lenses; wet	
-20					13		
-21					0.0		
-22			15'		15		
-23	S4		15'		15		
-24					0.1	gray fine to silty fine SAND, trace medium sand, trace coarse sand with silt lenses; wet	
-25					17		
-26					17		
-27					0.0		
-28			20'		20		
-29						End of Boring at 20 feet; No Refusal	
Groundwater Measurements						Summary	
Date	Time	Depth to Groundwater	Measuring Point	Overburden:	Fill; Sand		
				Rock:	NA		
				Well Depth:	NA		
				Boring:	20'		

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830
 Total Depth: 20 ft
 Date Started: 5/28/2019
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: City of Waltham
 Location: 240 Beaver St
 Completed: 5/28/2019
 Ground El.:
 BORING ID: GP1-2
 Logged By: AMS
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample				PID Hdspace (ppmv)	Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery			
0	S1		0'	40"	0.0	black asphalt and graded base	
-1					1	tan to gray fine SAND; trace gravel with broken concrete pieces; dry (FILL)	
-2					0.0		
-3					3		
-4					3	tan to gray fine to silty fine SAND, little medium sand; dry	
-5					0.0		
-6			5'		5		
-7	S2		5'	48"	5		
-8					0.0	gray fine to silty fine SAND, trace medium sand, with pebbles; dry	
-9					7		
-10					7		
-11					0.0		
-12					9		
-13					9		
-14			10'		0.1	gray fine to silty fine SAND, trace medium sand, trace coarse sand with gravel pieces; moist to wet	
-15	S3		10'	60"	11		
-16					11		
-17					0.1		
-18					13		
-19					13		
-20			15'		0.0	gray fine to silty fine SAND, trace medium sand, trace coarse sand with silt lenses; wet	
-21					15		
-22					0.0		
-23			15'		15		
-24	S4		15'		15		
-25					0.1		
-26					17	gray fine to silty fine SAND, trace medium sand, trace coarse sand with silt lenses; wet	
-27					17		
-28					17		
-29					0.0		
-30			20'		20	End of Boring at 20 feet; No Refusal	
-31							
Groundwater Measurements						Summary	
Date	Time	Depth to Groundwater	Measuring Point	Overburden:	Fill; Sand		
				Rock:	NA		
				Well Depth:	NA		
				Boring:	20'		

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 1830
 Total Depth: 20 ft
 Date Started: 5/28/2019
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: City of Waltham
 Location: 240 Beaver St
 Completed: 5/28/2019
 Ground El.:
 BORING ID: GP1-1
 Logged By: AMS
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample				PID Hdspace (ppmv)	Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery			
0	S1		0'	40"	0.0	black asphalt and graded base	
-1					1	tan to gray fine SAND, trace gravel with broken concrete pieces; dry (FILL)	
-2					0.0		
-3					3		
-4					3	tan to gray fine to silty fine SAND, little medium sand; dry	
-5			5'		0.0		
-6	S2		5'	48"	5		
-7					0.0		
-8					7		
-9					7		
-10					0.0		
-11					9		
-12					9		
-13			10'		0.1	gray fine to silty fine SAND, trace medium sand, trace coarse sand with gravel pieces; moist to wet	
-14	S3		10'	60"	11		
-15					11		
-16					0.1		
-17					13		
-18					13	gray fine to silty fine SAND, trace medium sand, trace coarse sand with silt lenses; wet	
-19					0.0		
-20					15		
-21	S4		15'		15		
-22					0.1		
-23					17	gray fine to silty fine SAND, trace medium sand, trace coarse sand with silt lenses; wet	
-24					17		
-25					0.0		
-26							
-27			20'		20		
-28						End of Boring at 20 feet; No Refusal	
Groundwater Measurements						Summary	
Date	Time	Depth to Groundwater		Measuring Point	Overburden: Fill; Sand		
					Rock: NA		
					Well Depth: NA		
					Boring: 20'		